



EV 355226497

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Application Serial No. ....09/451,256  
Filing Date .....November 29, 1999  
Inventorship .....Hollasch  
Applicant.....Microsoft Corp.  
Group Art Unit .....2672  
Examiner .....Amini  
Attorney's Docket No. ....MS1-448us  
Title: "Computer Graphics Methods and Apparatus For Ray Intersection"

**RESPONSE TO OFFICE ACTION DATED DECEMBER 26, 2002**

RECEIVED

To: Commissioner of Patents and Trademarks  
Washington, D.C. 20231

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Technology Center 2600

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PATENT TRADEMARK OFFICE

**In the Claims**

Claims 1-56 are pending and are listed below as follows:

1. In a computer graphic processing system in which a ray is cast toward an object represented by a collection of pre-determined shapes each characterized by characteristic data, a method for determining which of the shapes are intersected by the ray, the method comprising:

defining a reference object relative to the represented object;

determining the positions of the shapes relative to the reference object using the characteristic data; and